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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,507	09/29/2005	Kazumasa Hamamura	2007_0364	4233
7590 01/16/2008 Warren M. Cheek, Jr.			EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P. Suite 800 2033 K Street, N.W. Washington, DC 20006			NOLAN, JASON MICHAEL	
			ART UNIT	PAPER NUMBER
			1626	
				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
•	10/526,507	HAMAMURA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jason M. Nolan, Ph.D.	1626			
The MAILING DATE of this communication app	!	l l			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 30 Oc	ctober 2007.				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-31 and 33-37 is/are pending in the a 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-31 and 33-37 are subject to restriction	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	r. ·	·			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	• • •			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

This Office Action is responsive to Applicants Amendment – After Non-Final Rejection, filed 10/30/2007. Claims 1-31 & 33-37 are pending in the instant application; of which, Claims 1, 6-8, 17-20, 23, 24, 26-28, 33, & 37 are currently amended.

Response to Amendment

Applicant's amendments with respect to Claims 1, 6-8, 17-20, 23, 24, 26-28, 33, & 37 have been fully considered and are entered. The 102-prior art rejection of Claims 1-5, 10, 11, 13, 14, 16-18, & 30 is withdrawn per amendment. The 112-enablement rejections of Claims 1, 6, 7, 18, 23, & 31-37 are withdrawn per amendment. The claim objection to Claims 8, 9, 12, 15, 19-22, & 24-29 is withdrawn.

Election/Restrictions

Restriction is required under 35 U.S.C. § 121 and § 372.

Claims 1-31 & 33-37 are drawn to more than one inventive concept (as defined by PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2.

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (requirement of unity of invention).

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PCT Rule 13.2 states unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1 (b), provides that "special technical features" mean those technical features, which, as a whole, define a contribution over the prior art.

Annex B, Part 1 (e), provides combinations of different categories of claims and states:

"The method for determining unity of invention under Rule 13 shall be construed as permitting, in particular, the inclusion of any one of the following combinations of claims of different categories in the same international application:

- (i) in addition to an independent claim for a given product, an independent claims for a process specially adapted for the manufacture of the said product, and an independent claim for use of the said product, or
- (ii) in addition to an independent claim for a given process, an independent claim for an apparatus or means specially designed for carrying out the said process, or
- (iii) in addition to an independent claim for a given product, and independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for an apparatus or means specially designed for carrying out the said process,..."

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

- Group I: Claims 1 (in part), 2-5, 6 (in part), 8 (in part), 9-17, 18 (in part), 19-22, 26, 27 (in part), 28 (in part), 29-31, & 33-37: drawn to a compounds medical agents according to formula (I) wherein ring A is a benzene ring.
- Group II: Claims 1 (in part), 2-5, 6 (in part), 7 (in part), 10-17, 18 (in part), 23 (in part), 24 (in part), 29-31, & 33-37: drawn to a compounds medical agents according to formula (I) wherein ring A is an oxazole ring.
- Group III: Claims 1 (in part), 2-5, 6 (in part), 7 (in part), 8 (in part), 10-17, 18 (in part), 23 (in part), 24 (in part), 25 (in part), 27 (in part), 28

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(in part), 29-31, & 33-37: drawn to a compounds medical agents according to formula (I) wherein <u>ring A</u> is a thiazole ring.

Group IV: Claims 1 (in part), 2-5, 10-17, 18 (in part), 29-31, & 33-37: drawn to a compounds medical agents according to formula (I) wherein ring A is a benzothiophene ring.

Group V: Claims 1 (in part), 2-5, 10-17, 18 (in part), 29-31, & 33-37: drawn to a compounds medical agents according to formula (I) wherein ring A is a benzofuran ring.

Group VI: Claims 1 (in part), 2-5, 10-17, 18 (in part), 29-31, & 33-37: drawn to a compounds medical agents according to formula (!) wherein ring A is an indazole ring.

The claims herein lack unity of invention under PCT Rules 13.1 and 13.2 because, pursuant to 37 C.F.R. § 1.475(a) **Group I - Group VI** lack unity of invention since, under 37 CFR § 1.475:

Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a technical feature among those inventions involving one or more of the same or corresponding special technical features...those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The structural moiety common to **Group I – Group VI** is the structure shown as Formula (I) in **Claim 1**.

This technical feature is not a special technical feature, because it fails to define a contribution over the prior art (see Alzeer et al. J. Med. Chem. 2000, 43, 560-568; see IDS). Specifically, compound 33 on page 562 anticipates Formula (I) wherein R¹ represents C₁ alkyl; R² represents a substituted aromatic group; X¹ is S; M¹, Y, M², M³,

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 X^2 are bonds; ring A is benzene; and M^4 represents a substituted divalent hydrocarbon group.

Therefore, Claims 1-31 & 33-37 are not so linked as to form a single general inventive concept and there is a lack of unity of invention. The variables vary extensively and when taken as a whole result in vastly different compounds.

Additionally, the vastness of the claimed subject matter and the complications in understanding the claimed subject matter impose a serious burden on the search and examination of the claimed subject matter.

Therefore, since the claims do not relate to a single general inventive concept under PCT Rule 13.1 and lack the same or corresponding special technical features, the claims lack unity of invention and should be limited to a product or a method of use.

Furthermore, with respect to **Group I – Group VI**, even if unity of invention under 37 CFR 1.475(a) is not lacking, under 37 CFR 1.475(b) a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations:

- (1) A product and a process specially adapted for the manufacture of said product, or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specially designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specially designed for carrying out the said process.

Moreover, according to 37 CFR 1.475(c),

If an application contains claims to more or less that one of the combinations of categories of invention set forth in paragraph (b), unity of invention might not be present.

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In the instant case the claims are drawn to more than a product and a method of use, and according to 37 CFR 1.475(e),

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.

As a result, the claims lack unity of invention and applicant is required to elect a single invention.

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Nolan, Ph.D. whose telephone number is (571) 272-4356 and electronic mail is <u>Jason.Nolan@uspto.gov</u>. The examiner can normally be reached on Mon - Fri (9:00 - 5:30PM). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Joseph McKane** can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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